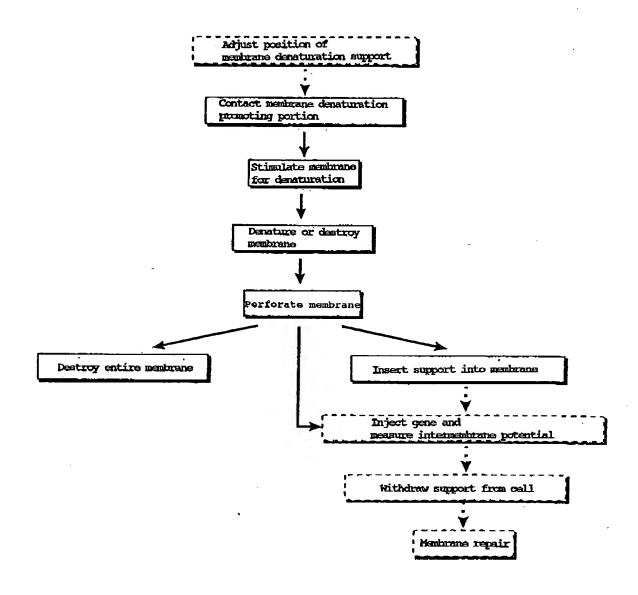


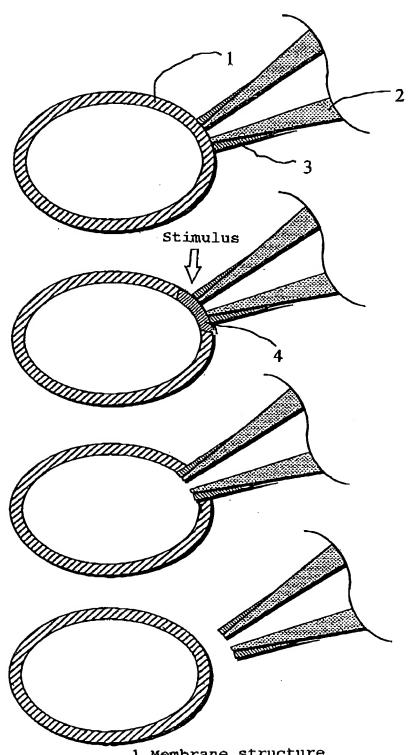
Figure 1

Figure 2



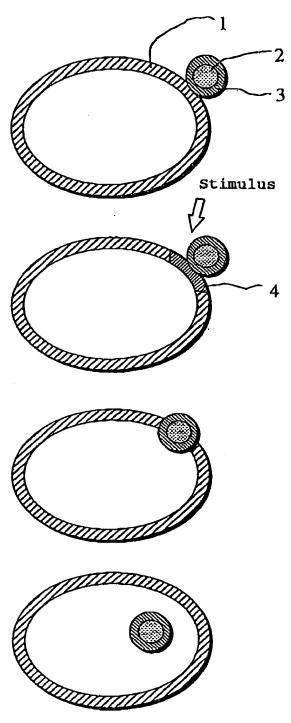
Flow chart of membrane perforation technique

Figure 3



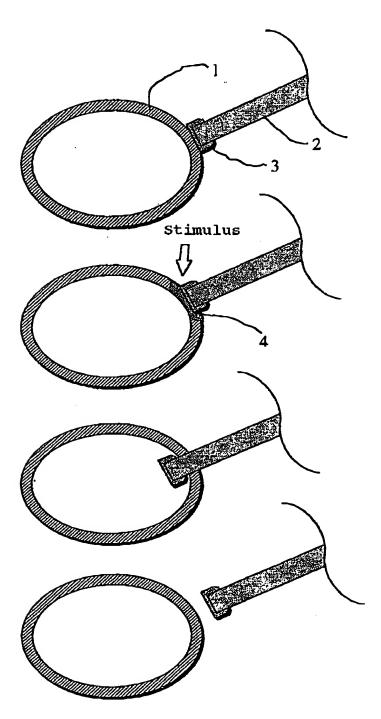
- 1 Membrane structure
- 2 Support
- . 3 Membrane denaturation promoting portion
- 4 Denatured portion of membrane

Figure 4



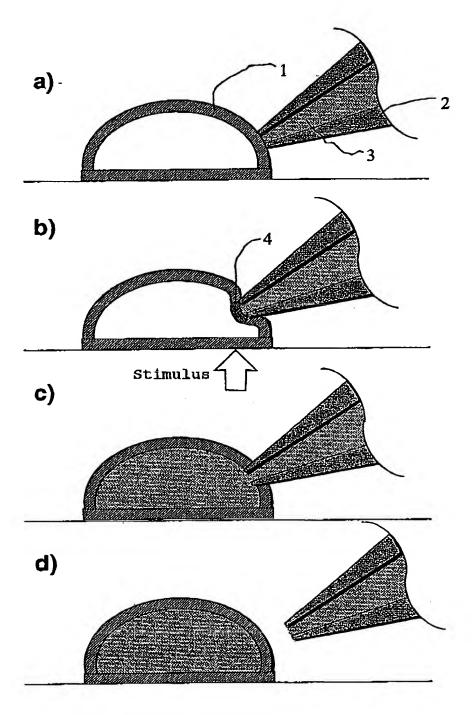
- 1 Membrane structure
- 2 Support
- 3 Membrane denaturation promoting portion
- 4 Denatured portion of membrane

Figure 5

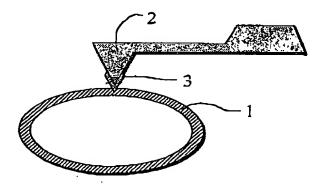


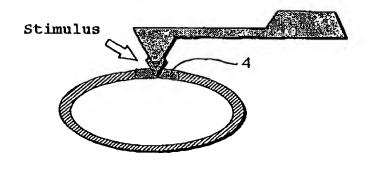
- 1 Membrane structure
- 2 Support
- 3 Membrane denaturation promoting portion
- 4 Denatured portion of membrane

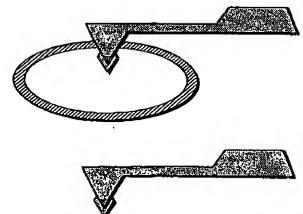
Figure 6

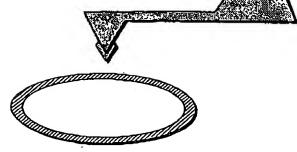


- 1 Membrane structure
- 2 Support
- 3 Liquid containing membrane denaturation promoter
- 4 Denatured portion of membrane









- 1 Membrane structure
- 2 Support
- 3 Membrane denaturation promoting portion
- 4 Denatured portion of membrane

Figure 8

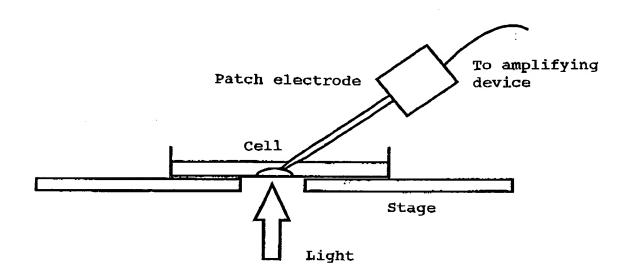


Figure 9

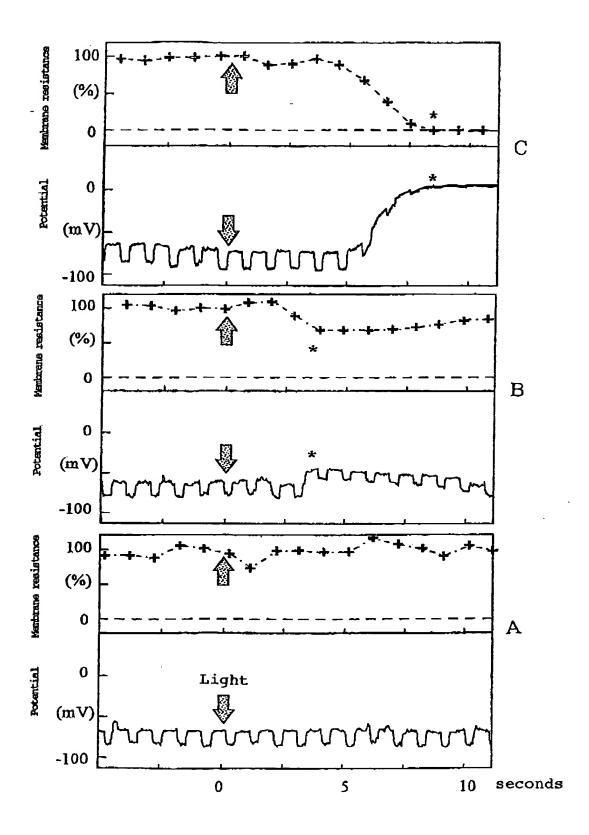


Figure 10

720004 777 TO 1340177 STITM REG TATERY OF FICE

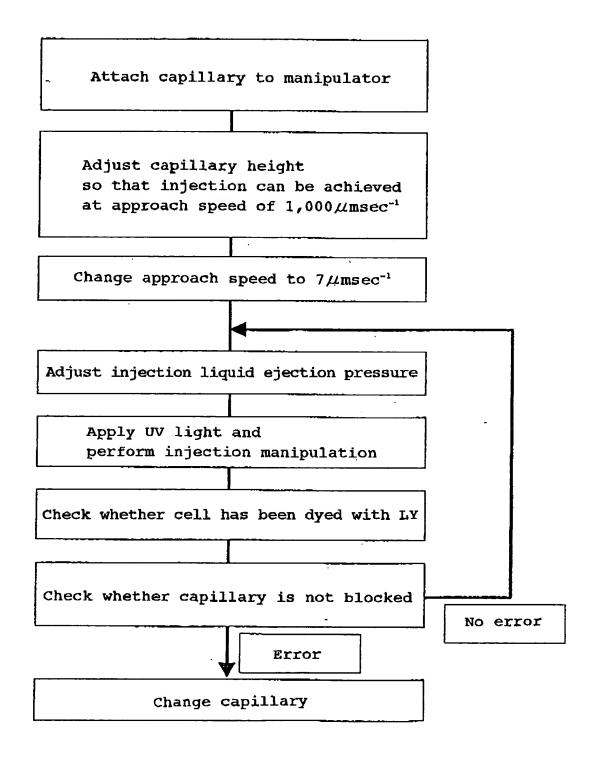
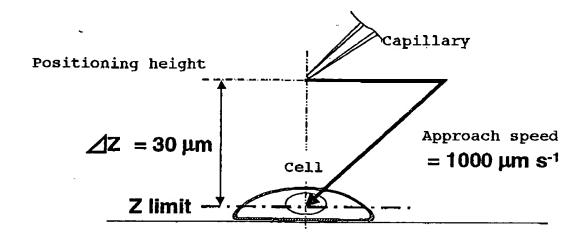
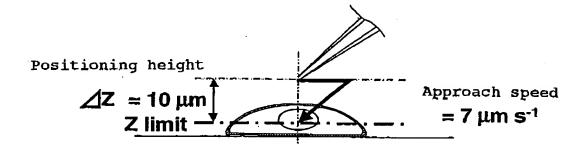


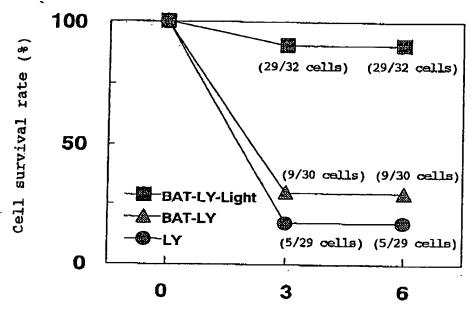
Figure 11



1) Execute normal microinjection to check whether Z limit has been appropriately set



2) Change settings such that approach is made at speed at which insertion is difficult, and evaluate effects of photosensitizing on injection efficiency



Number of days passing after injection (days)

BAT-LY-Light: LY+BAT containing liquid; photosensitizing injection; attempted on 32 cells

BAT-LY: LY+BAT containing liquid; normal injection; attempted on 30 cells LY: LY containing liquid; normal injection; attempted on 29 cells

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Figure 13

